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*Another Letter from the same hand, upon the same Subject with the former.*

Illustri Viro

Dom. Henrico Oldenburgio,

Illustrissimæ Regiæ Societ. Secretario,

amico honorando, Joh. Hevelius, S.

**L**iteras meas, die 1 Maii nuper datas, spero Te optimè accepisse, atque ex iis intellexisse, Cometam hinc Gedani die 27 April. primum illuxisse: nunc ad continuandam hujus phænomeni Historiolam nonnulla adhuc addam, quid videlicet tum ejus cursu contigerit, & quando planè hic visui sese subduxerit. Atque ita die 1 Maii vesperti, uti in dictis literis vobis perscripseram, sperabam me Cometam quoque observaturum, ut ut in decliviori situ; sed adversa aëris temperies, id omninò tum impediēbat: At verò die 2 Maii vesperti, Cælo rursus sereno, horâ 8. 45', etiamsi eâ in parte Cæli, nulla adhuc Stella emicarent, intensumque crepusculum existeret, nihilominus Cometam Tubo Optico ivimus quæsitum, quem etiam protinus inveni, sicuti omnes spectatores testabuntur. Paulò post, illum in altitudine 3. 30' sextante majori, à Capella & Lucidâ Cathedræ Cassiopeæ dimensus sum: Caudam referebat, ratione crepusculi, valde tenuem, quam inter utrumque genu Cassiopeæ, propius tamen sinistro exporrigebat: occidebat eâ vesperti horâ 10 Circium versus, h. e. Nord Nord west. Die 3 Maii mane, Cælo rursus perquam sereno Cometa oriebatur Boream versus, h. e. Nord Nord ost, horâ scilicet 1. 23', quanquam Cauda paulò citius à nobis detecta, nempe hor. 1. 18'; observatus est à Capella, Lucido Latere Persei, & Lucida Cathedræ Cassiopeæ, versabatur in 14 grad. 8, cum Sole ferè in ipsâ Conjunctiōe, Latitudinem habens 17 grad., & tantam etiam distantiam ferè ab ipso Sole. Caudam hâc die longè prolixiorem & acutiorem satisque splendidam 2 vel 3 ferè grad. ostendebat. Hincque à me aliisque spectatoribus visu pollentibus nudo oculo ad hor. 3. 34' deprehensus est, & Telescopio ad hor. 3. 40', in altitudine 11°. 30'; adeò ut Sol eo tempore tantummodò 6 grad. infra horizontem lateret; imò diutius illum vidissemus, nisi nubecula illum nobis eripuissent: Motus diurnus decrescere videbatur, quantum conjecturâ absque omni calculo assequi potui. Nam inter 29 & 30 April. 2°. 45' ferè extitit; inter 30 Apr. & 1 Maii 2°. 15'; inter 1 & 2 Maii 1°. 55'; inter 2 & 3 Maii 1. 40'; sed ipse observationes calculusque id clariùs ostendent. Die 3 Maii vesperti Cælum minimè erat serenum; die vero 4 Maii vesperti, aëre admodum sudo, horâ 8. 53', iterum Cometa detectus, sed obscurior paulo extitit, quàm diebus præcedentibus, tum Cauda

*brevior ; dimensus eum sum à Capellâ, & Lucidâ Cathedræ Cassiopeæ. Die 5 Maii mane horâ 1.41'. Cometa primum apparuit, ob obscuriores scilicet nubes horizontem insidentes ; observatus rursus est, à Capellâ, Cingulo Andromedæ, & Lucido Latere Persei, caudam dextrum genu Cassiop. versus exponens ; versabatur in 178, in 16 Latit. Bor., pariter in tantâ distantia à Sole ; motus proprius à die 3 ad 5 Maii fuit ferè  $2^{\circ}.40'$ , decresciente Latitudine, ab ipso initio scilicet ferè ad 3 grad. ; sic ut in 29 April. motus proprius Cometæ ad 5 Maii propemodum fuerit 12 grad. Eâdem die vesperti clarè quidem rursus illuxit, sed minimè, ob gravissimas occupationes, observatus. Die 6 Maii mane, rursus illum dimensus sum ; sed ruditer tantum, ob nubes, à Capellâ inprimis & Lucidâ Cathedræ Cass. ; commorabatur eo tempore in  $18^{\circ}$ , & Latit. Bor.  $15^{\circ}.30'$ , Sole existente in  $17^{\circ}$  ; motus diurnus erat  $50'$ , circit. Quoad caput, quàm caudam multò tenuior ac debilior videbatur, ob Solem non nisi  $16\frac{1}{2}$  grad. à Cometâ remotum. Die 6 Maii vesperti visus quidem Tubo Optico hor. sc. 8.35', cauda adhuc breviori & dilutiori ; sed cum in decliviori situ, atque in crepusculo intenso existeret, nullo modo distinctè in nudos incurrebat oculos. Die 7 Maii deprehensus primum hor. 2.22' in altitudine  $3^{\circ}$  ; observabatur rursus à Capellâ, & Lucido Latere Persei, ut ut valdè tenuis videretur ; occupabat eo tempore  $19^{\circ}$ , in Latitudine  $15^{\circ}$  Bor., & distantia à Sole  $16^{\circ}$  ferè, Sole existente in 18 grad. ; motus ejus proprius magis magisque decrescbat quantum colligere absque calculo dabatur. Die 8 Maii mane ab hor. 1. sedulo nudis quæsitus est oculis, sed nusquam apparuit, Telescopio tamen 12 ped. inventus, caudam quidem adhuc præ se ferens, sed brevissimam, paulò à circulo verticali sinistram versus extensam. Quantum conjectura assequi potui ; versabatur in  $20^{\circ}$ , in distantia à Sole  $15^{\circ}$ , qui tum 19 gradum & possidebat ; stabat ferè hoc tempore in lineâ rectâ, cum humero dextro Persei, & Algol. Medusæ, exquisitè tamen à fixis observari hodie haud potuit. Diameter Cometæ, ad Jovis diametrum comparata, vix ad dimidiam partem accedebat. De reliquo, Tubi beneficio satis erat adhuc conspicuus, adeò ut eum ad hor. 3.45' distinctè conspiciere potuerimus, in altitudine scilicet  $9^{\circ}$  ferè : unde colligere datur, arcum visionis vix  $5^{\circ}$  tum fuisse. Sol enim vix 5 grad. sub horizonte hærebat ; quo tempore omnes jam Stellæ, excepto unico Jove, evanuerunt : Sol oriebatur limbo suo superiori hor. 4.6' ferè. Die 8 Maii vesperti Cometam nec nudis oculis, nec ullo Telescopio de- tegere amplius potuimus. Die 9 mane & vesperti, ut ut anxie quæ- situs, nullâ tamen ratione conspectus ; nec die 10 Maii ; sic ut cer- tum*

tum sit , Cometam hunc die 8 mane à nobis hic Gedani ultimum esse deprehensum , & non nisi per 12 dies , nimirum à 27 Aprilis ad 8 Maii in Cælo fulsisse ; quanquam , meâ opinione , multò citius detegi potuisset , si cælum nobis annuisset : Cum circa Piscem Boreum , sub Andromedâ adhuc versaretur ; pariter longè diutius conspectus fuisset , si cursum suum motu retrogrado instituisset ; verùm cum indies motu directo Solem versùs latus fuerit , & in Coniunctione Solis ferè continuò hæserit , baud potuit ampliùs videri . Atque hæc sunt , Amice honorande , quæ hâc vice , rudiori modo , de hoc Cometâ illustriss. Regiæ Nostre Societati , cum omnigenâ felicitatis voto , significare submitte volui . Quid Vos in Angliâ , vel alii in Galliâ & Italiâ , de hocce Cometâ annotastis , rursum à Te avidissimè , prima occasione , expecto .

Dabam Gedani Anno 1677. die 13 Maii , st.n.

Mr. Flamstead's account of his Observations of the late Comet , sent in a Letter to the Publisher, Greenwich, May 18. 1677.

S I R,

I Have this day received a Note from Sr. Jonas Moore, in which he informs me, that you have received Papers concerning the late Comet both from Mr. Hevelius and Mr. Cassini, and that you desire to know what I observed of it. I am glad to hear you have accounts of it from two such able persons, who having observed and made theories for the Comets which appeared near the same place twice of late at twelve years interval, viz in 1653, and 1665, may best inform us, what conformity there is betwixt the Motions of this and them, and whether it may probably be the same returned hither after two revolutions; or another: My Observations of it, by reason of our cloudy Nights, were so few, that I can determine nothing from them; however perhaps they may be of use to others, who had more frequent opportunities, and therefore such as they are, they are at your service.

The first time that the Comet was taken notice of with us, that I can hear of, was about the middle of our Easter week; I believe it might have been observed long before, had not the unwonted cloudiness of our Heavens (which has permitted me to observe but 4 of almost 50 appulses of the Moon and Planets to fixed Stars foreseen hitherto) prevented. The first certain notice I had of it was on April 21. I waited the rising of the Comet; but immediately after midnight the Heavens were over-